1636



RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/856,319B

DATE: 08/20/2002 TIME: 14:39:45

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3 <110> APPLICANT: UEMURA, Hidetoshi
         OKUI, Akira
 5
         KOMINAMI, Katsuya
         YAMAGUCHI, Nozomi
 6
         MITSUI, Shinichi
 9 <120> TITLE OF INVENTION: NOVEL SERINE PROTEASE BSSP5
11 <130> FILE REFERENCE: UEMURA=5
13 <140> CURRENT APPLICATION NUMBER: 09/856,319B
14 <141> CURRENT FILING DATE: 2001-05-21
16 <150> PRIOR APPLICATION NUMBER: JP 10/347806
17 <151> PRIOR FILING DATE: 1998-11-20
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19 <150> PRIOR APPLICATION NUMBER: PCT JP99/06473
20 <151> PRIOR FILING DATE: 1999-11-19
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47 Gly Ser Ser Trp Gly Cys Gly Ile Pro Ala Ile Lys Pro Ala Leu Ser
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50 ttc age cag agg att gtc aac ggg gag aat gca gtg ttg ggc tcc tgg
51 Phe Ser Gln Arg Ile Val Asn Gly Glu Asn Ala Val Leu Gly Ser Trp
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54 ccc tgg cag gtg tcc ctg cag gac agc agc ggc ttc cac ttc tgc ggt
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55 Pro Trp Gln Val Ser Leu Gln Asp Ser Ser Gly Phe His Phe Cys Gly
56
           15
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58 ggt tet ete ate age eag tee tgg gtg gte aet get gee eac tge aat
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59 Gly Ser Leu Ile Ser Gln Ser Trp Val Val Thr Ala Ala His Cys Asn
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62 gtc agc cct ggc cgc cat ttt gtt gtc ctg ggc gag tat gac cga tca	289											
63 Val Ser Pro Gly Arg His Phe Val Val Leu Gly Glu Tyr Asp Arg Ser												
64 45 50 55 60	227											
66 toa aac goa gag coc ttg cag gtt ctg toc gtc tot cgg gcc att aca	337											
67 Ser Asn Ala Glu Pro Leu Gln Val Leu Ser Val Ser Arg Ala Ile Thr												
68 65 70 75	205											
70 cac cct age tgg aac tct acc acc atg aac aat gac gtg acg ctg ctg	385											
71 His Pro Ser Trp Asn Ser Thr Thr Met Asn Asn Asp Val Thr Leu Leu												
72 80 85 90	422											
74 aag ctc gcc tcg cca gcc cag tac aca aca cgc atc tcg cca gtt tgc	433											
75 Lys Leu Ala Ser Pro Ala Gln Tyr Thr Thr Arg Ile Ser Pro Val Cys												
76 95 100 105	401											
78 ctg gca tcc tca aac gag gct ctg act gaa ggc ctc acg tgt gtc acc	481											
79 Leu Ala Ser Ser Asn Glu Ala Leu Thr Glu Gly Leu Thr Cys Val Thr												
80 110 ( 115 120	E20											
82 acc ggc tgg ggt cgc ctc agt ggc gtg ggc aat gtg aca cca gca cat	529											
83 Thr Gly Trp Gly Arg Leu Ser Gly Val Gly Asn Val Thr Pro Ala His												
84 125 130 135 140	<b>-77</b>											
86 ctg cag cag gtg gct ttg ccc ctg gtc act gtg aat cag tgc cgg cag	577											
87 Leu Gln Gln Val Ala Leu Pro Leu Val Thr Val Asn Gln Cys Arg Gln												
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90 tac tgg gac tca agt atc act gac tcc atg atc tgt gca ggt ggc gca	625											
91 Tyr Trp Asp Ser Ser Ile Thr Asp Ser Met Ile Cys Ala Gly Ala												
92 160 165 170	673											
94 ggt gcc tcc tcg tgc cag ggt gac tcc gga ggc cct ctt gtc tgc cag	673											
95 Gly Ala Ser Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Gln												
96 175 180 185	701											
98 aag gga aac aca tgg gtg ctt att ggt att gtc tcc tgg ggc acc aaa	721											
99 Lys Gly Asn Thr Trp Val Leu Ile Gly Ile Val Ser Trp Gly Thr Lys												
100 190 195 200	7.00											
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104 205 210 215 220	022											
106 age ace tgg ate aac cag gte ata gee tac aac tgageteace acaggeeete	822											
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108 225 230	002											
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222	atc	acg	cct	gca	ctg	agc	tac	aat	cag	aga	att	gtc	aac	ggg	gag	aat	149
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226	gca	gtg	cca	ggc	tcc	tgg	ccc	tgg	cag	gtg	tct	ctc	cag	gat	aac	acc	197
227	Ala	Val	Pro	Gly	Ser	$\mathtt{Trp}$	Pro	$\mathtt{Trp}$	Gln	Val	Ser	Leu	Gln	Asp	Asn	Thr	
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236		40					45					50					
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	GIII	val	105	Pro	vaı	Cys	reu	Ala 110	ser	THE	ASII	GIU	115	Leu	Pro	ser	
252	~~~	ata		+ ~+	a+ a	200	2 a t		+~~	~~~	~~~	2+0		~a+	~+ ~	~~~	533
								ggc Gly									233
256	GIĀ	120	1111	Cys	Val	1111	125	GIA	пр	СТУ	AIG	130	ser	СТУ	vai	GIY	
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								Trp									023
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								Ala									
268		-		170	-		_		175		- 4		- 4	180	-		
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303 -1 1
306 Val Ser Leu Gln Asp Asn Thr Gly Phe His Phe Cys Gly Gly Ser Leu
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314 Gly Arg His Phe Val Val Leu Gly Glu Tyr Asp Arg Ser Ser Asn Ala
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318 Glu Pro Val Gln Val Leu Ser Ile Ala Arg Ala Ile Thr His Pro Asn
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322 Trp Asn Ala Asn Thr Met Asn Asn Asp Leu Thr Leu Leu Lys Leu Ala
326 Ser Pro Ala Arg Tyr Thr Ala Gln Val Ser Pro Val Cys Leu Ala Ser
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330 Thr Asn Glu Ala Leu Pro Ser Gly Leu Thr Cys Val Thr Thr Gly Trp
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334 Gly Arg Ile Ser Gly Val Gly Asn Val Thr Pro Ala Arg Leu Gln Gln
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338 Val Val Leu Pro Leu Val Thr Val Asn Gln Cys Arg Gln Tyr Trp Gly
                            150
342 Ala Arg Ile Thr Asp Ala Met Ile Cys Ala Gly Gly Ser Gly Ala Ser
343 160
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346 Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Gln Lys Gly Asn
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350 Thr Trp Val Leu Ile Gly Ile Val Ser Trp Gly Thr Lys Asn Cys Asn
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Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\08202002\1856319B.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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